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- 49. (new) The plate of claim 47 further comprising an average grain size of about 25 microns.
 - 50. (new) The plate of claim 47 produced from a frictionless forged billet.
 - 51. (new) The plate of claim 47 having a thickness, wherein the plate comprises the substantially uniform {100} crystallographic orientation throughout the thickness.
 - 52. (new) The plate of claim 47 further comprising an average tantalum grain size of less than 50 microns at the plate surface.
 - 53. (new) A tantalum plate comprising at least about 99.95 weight percent tantalum and a maximum grain size of less than 50 microns.
 - 54. (new) The plate of claim 53 produced from a frictionless forged billet.
 - 55. (new) A tantalum plate comprising an average grain size of about 25 microns.
 - 56. (new) The plate of claim 55 comprising a maximum grain size of less than 50 microns.
 - 57. (new) A tantalum plate comprising at least about 99.95 weight percent tantalum; the plate having a thickness and a maximum grain size of less than 50 microns throughout the thickness; the plate also comprising a substantially uniform {100} crystallographic orientation throughout the thickness.
 - 58. (new) The plate of claim 57 comprising an average tantalum grain size of less than 50 microns throughout the thickness.
 - 59. (new) A plate comprising at least about 99.95 weight percent tantalum and an average grain size of less than 50 microns.
 - 60. (new) The plate of claim 59 produced from a frictionless forged billet.

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- 61. (new) A plate comprising at least about 99.95 weight percent tantalum and an average grain size of less than about 25 microns.
- 62. (new) Tantalum metal having a texture in which a {100} pole figure has a center peak intensity equal to or less than about 17 random.
- 63. (new) The tantalum metal of claim 62 comprising at least about 99.95 weight percent tantalum and having an average tantalum grain size of less than 50 microns at a surface of the metal.
- 64. (new) Tantalum metal having a texture in which a {100} pole figure has a center peak intensity equal to or less than about 7 random.
- 65. (new) The tantalum metal of claim 64 comprising at least about 99.95 weight percent tantalum and having an average tantalum grain size of less than 50 microns at a surface of the metal.
- 66. (new) Tantalum metal having a texture in which a {100} pole figure has a center peak intensity equal to or less than about 4.5 random.
- 67. (new) The tantalum metal of claim 66 comprising at least about 99.95 weight percent tantalum and having an average tantalum grain size of less than 50 microns at a surface of the metal.